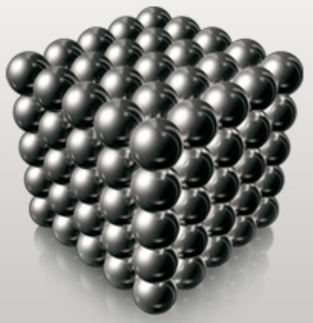
A.M.P. on Mac OS X

Apache, MySQL, PHP/Perl/Python

Session 602

These are confidential sessions—please refrain from filming or taking pictures.



Enterprise IT

A.M.P. on Mac OS X

Apache, MySQL, PHP/Perl/Python

John Montbriand, DTS Engineer
Marc Liyanage, www.entropy.ch

http://developer.apple.com/wwdc2005/

Topics

- Apache, MySQL, and PHP in Tiger
  - What's installed?
    - Apache, PHP, Perl, Python, Ruby
  - Extras you can install
    - MySQL, PostgreSQL
    - Apache
    - PHP
- Marc Liyanage of www.entropy.ch
  - Installers for today's versions
- Hands On
  - Local Web Site
- Q&A

Hands On

Applications used in this session:

Safari

Xcode

Terminal

Finder

System Preferences

Example:

Safari

Open www.apple.com

Click ‘Developer’

Hands On

Applications used in this session:

Safari

Xcode

Terminal

Finder

System Preferences

Example:

Safari

- Open www.apple.com

  Click ‘Developer’

Hands On

Applications used in this session:

Safari

Xcode

Terminal

Finder

System Preferences

Example:

Safari

- Open www.apple.com
- Click ‘Developer’

Downloading Installers

1. Please do not download installer packages during the presentation
2. Presentation rooms have restricted network bandwidth
3. Many downloads will make the network inaccessible

What's Installed?

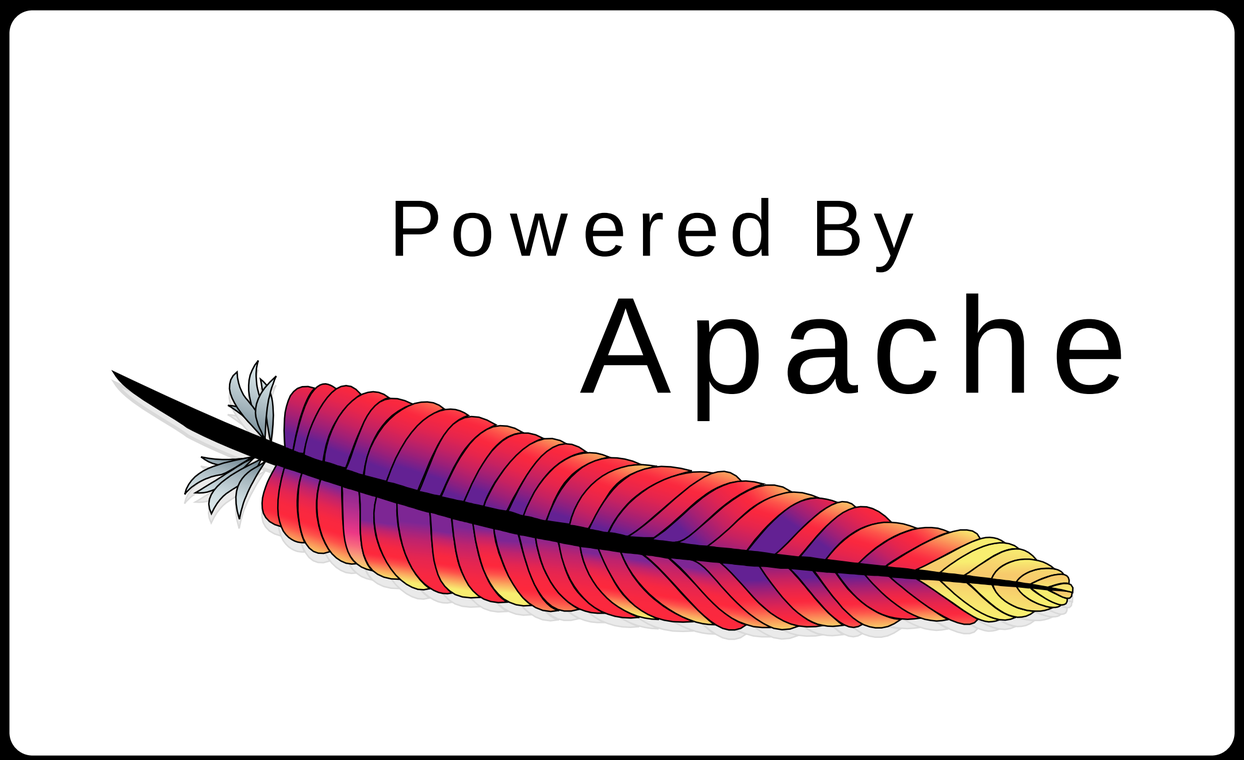
Information

http://developer.apple.com/wwdc2005/

Apache

Version 1.3.33

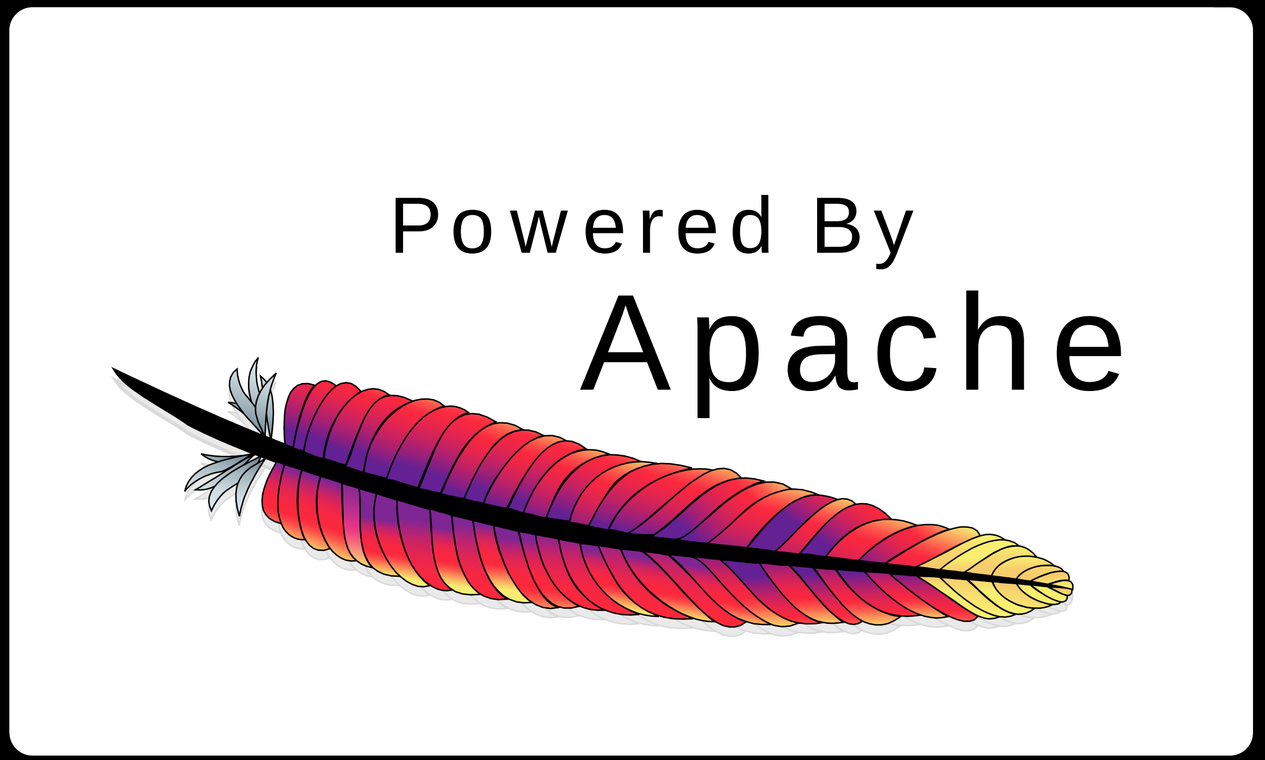
- Web Site:
  - http://www.apache.org



PHP

Version 4.3.1

- Web Site:
  - http://www.php.net
- mod_php
- Update to 5
  - Marc Liyanage



Perl

Version 5.8.4

- Web Site:
  - http://www.perl.org
- mod_perl
- Update to 5.8.6
  - http://darwinports.opendarwin.org

Python

Version 2.3.5

- Web Site:
  - http://www.python.org/
- Update to 2.4
  - http://darwinports.opendarwin.org

Ruby

Version 1.8.1

- Web Site:
  - http://www.ruby-lang.org
- Update to 1.8.2
  - http://darwinports.opendarwin.org

Extras You Can Install

Information

http://developer.apple.com/wwdc2005/

MySQL

- Web Site
  - http://www.mysql.com
- Installer Packages
- MySQL 4.1 and PHP 4.3.1
  - Password hash compatibility

PostgreSQL

- Web Site
  - http://www.postgresql.org
- Installer by Marc Liyanage
  - http://www.entropy.ch

Apache in Tiger

Explore and Activate

http://developer.apple.com/wwdc2005/

Apache in Tiger

- Version 1.3.33
- Website http://www.apache.org

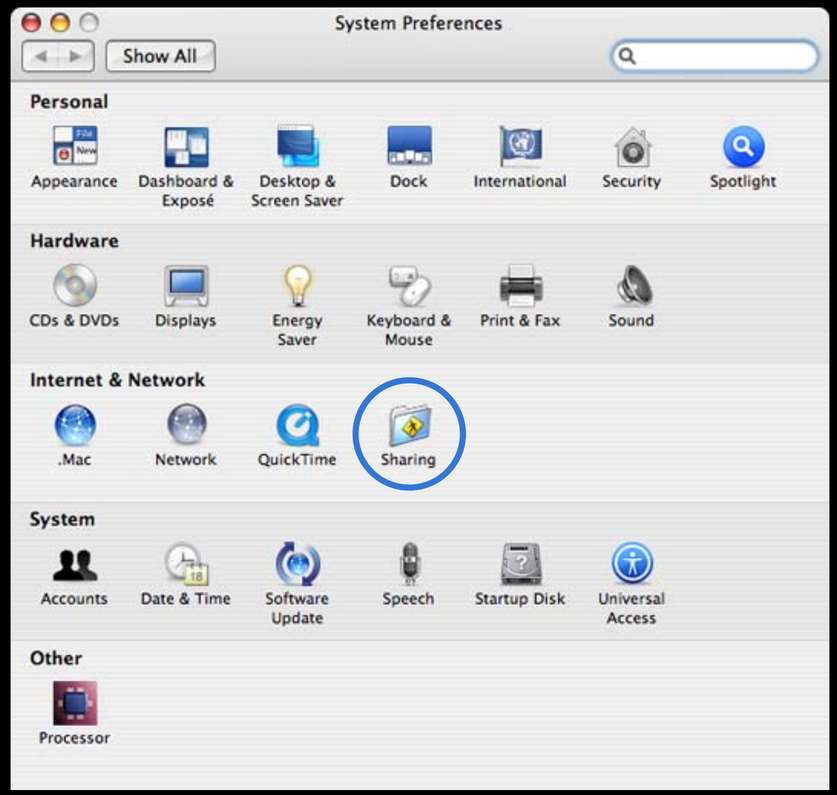
Safari

Open www.apache.org

Click on 'HTTP Server'

Apache in Tiger

Let's turn on Apache



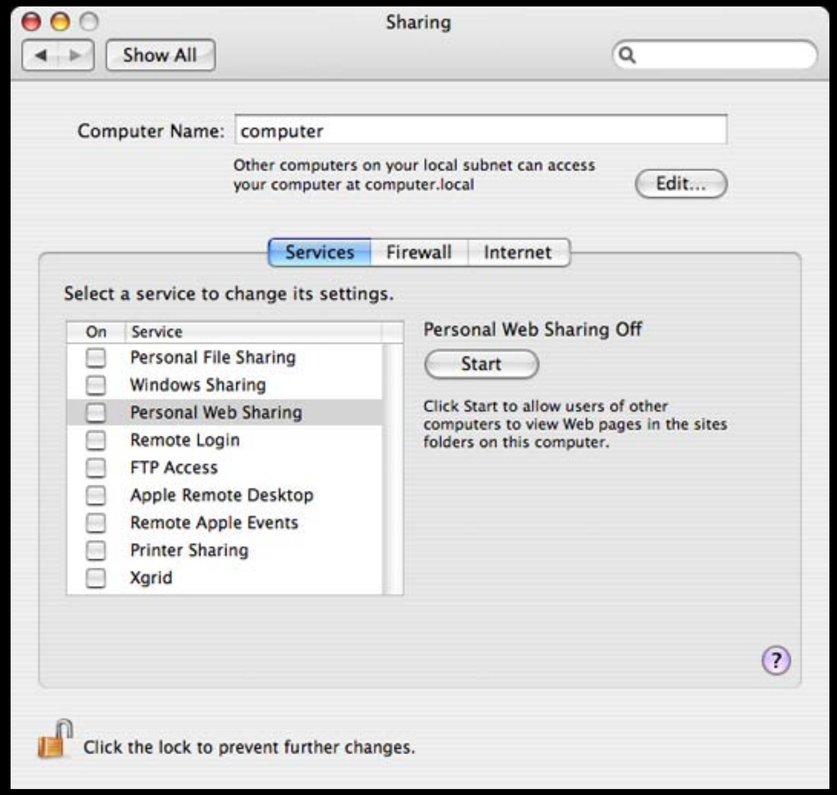
System Preferences

Select Sharing

Turn on Personal Web Sharing

Apache in Tiger

Let's turn on Apache



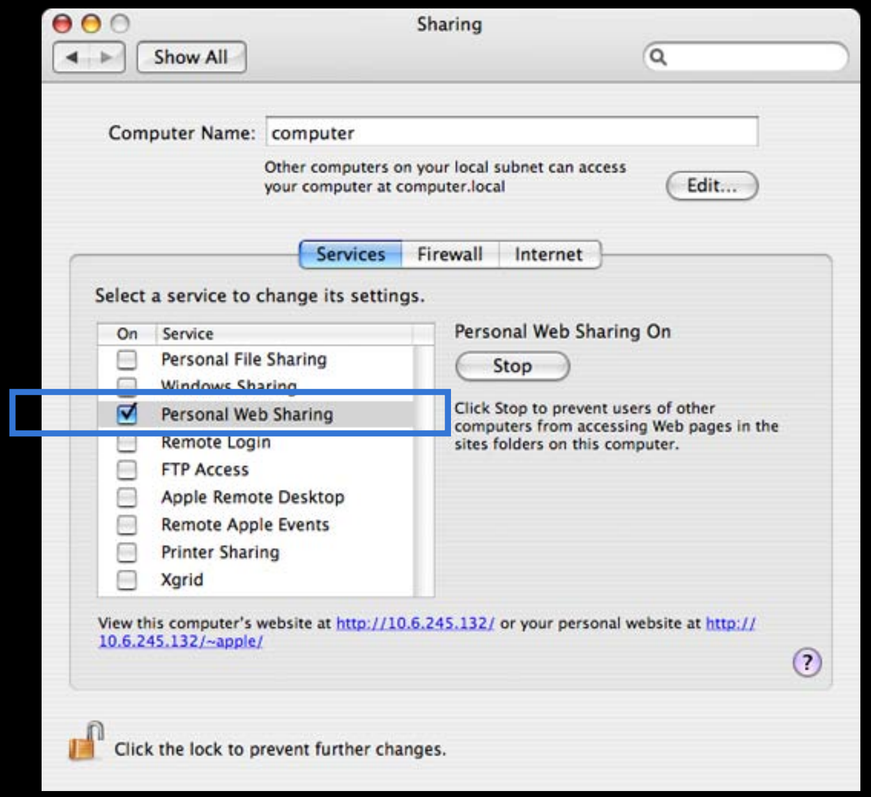
System Preferences

- Select Sharing

  Turn on Personal Web Sharing

Apache in Tiger

Let's turn on Apache



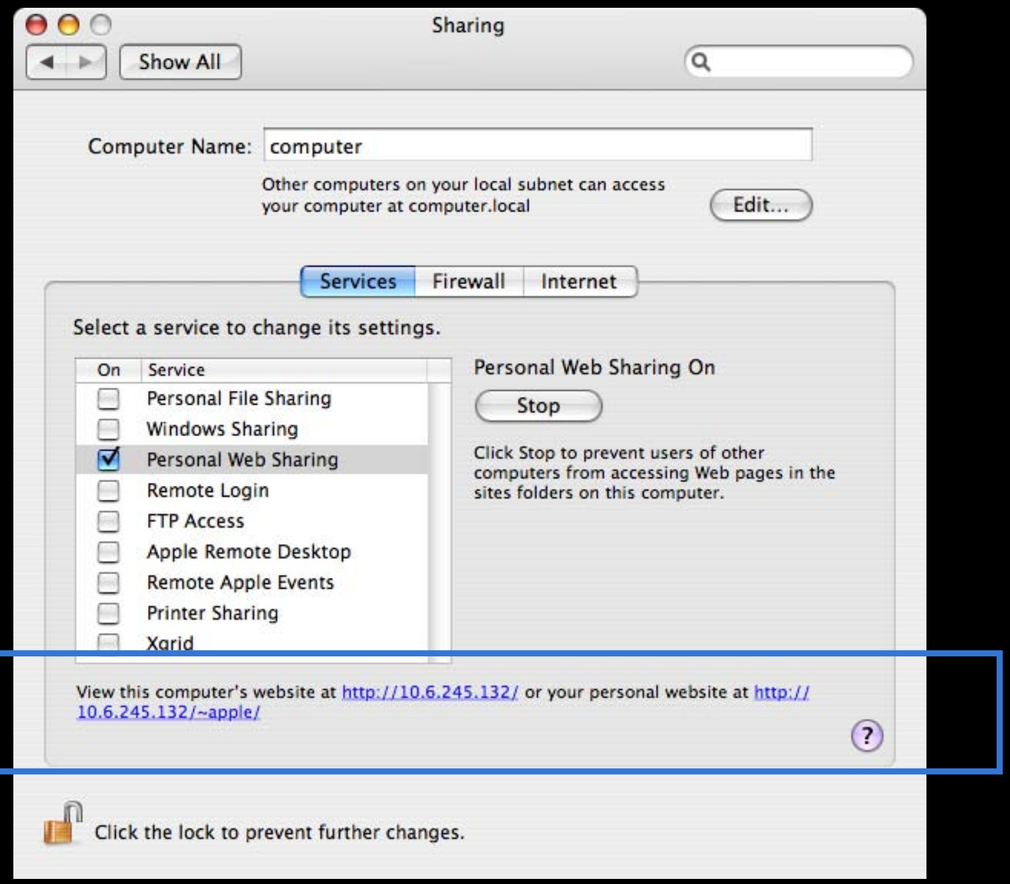
System Preferences

Select Sharing

◆Turn on Personal Web Sharing

Apache in Tiger

Apache's network address



Demo

Turn on Apache

http://developer.apple.com/wwdc2005/

Apache in Tiger

apachectl

Terminal

```
apachectl status
man apachectl
```

Apache in Tiger

apachectl

Terminal

- `apachectl status`

  `man apachectl`

Apache in Tiger

apachectl

Terminal

```
apachectl status
man apachectl
```

Apache in Tiger

Let's try it out

Safari

Open http://localhost/

Demo

Browse ‘http://localhost’

http://developer.apple.com/wwdc2005/

Apache in Tiger

Configuration files

- /etc/httpd/httpd.conf
- /etc/httpd/users/*.conf

Terminal

```
open /etc/httpd
```

Finder

Browse /etc/httpd

Apache in Tiger

Configuration files

- /etc/httpd/httpd.conf
- /etc/httpd/users/*.conf

Terminal

```
open /etc/httpd
```

Finder

Browse /etc/httpd

Apache in Tiger

Configuration files

- /etc/httpd/httpd.conf
- /etc/httpd/users/*.conf

Terminal

```
open /etc/httpd
```

Finder

- Browse /etc/httpd

Apache in Tiger

Summary

- Turned it on
- Located documentation
- Located configuration files

Apache in Tiger

Enable mod_php

http://developer.apple.com/wwdc2005/

Apache in Tiger

Enabling mod_php

- mod_php
- Not turned on by default
- Changes in httpd.conf required

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo cp -pf httpd.conf httpd.conf.wwdc
sudo chmod o+w httpd.conf
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo cp -pf httpd.conf httpd.conf.wwdc
sudo chmod o+w httpd.conf
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo cp -pf httpd.conf httpd.conf.wwdc
sudo chmod o+w httpd.conf
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Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo cp -pf httpd.conf httpd.conf.wwdc
sudo chmod o+w httpd.conf
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
open /etc/httpd
```

Finder

browse /etc/httpd

drag and drop httpd.conf to Xcode

Xcode

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
◆ open /etc/httpd
```

Finder

browse /etc/httpd

drag and drop httpd.conf to Xcode

Xcode

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
open /etc/httpd
```

Finder

- browse /etc/httpd

  drag and drop httpd.conf to Xcode

Xcode

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
open /etc/httpd
```

Finder

browse /etc/httpd

- drag and drop httpd.conf to Xcode

Xcode

Demo

Open httpd.conf in Xcode

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Xcode

remove leading '#' from these lines::

```
#LoadModule php4_module        libexec/httpd/libphp4.so
#AddModule mod_php4.c
```

they will look like this when you're done:

```
LoadModule php4_module        libexec/httpd/libphp4.so
AddModule mod_php4.c
```

save and close

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo chmod o-w httpd.conf
sudo apachectl graceful
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo chmod o-w httpd.conf
sudo apachectl graceful
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo chmod o-w httpd.conf
sudo apachectl graceful
```

Apache in Tiger

Enabling mod_php

- Backup and open httpd.conf
- Edit httpd.conf
- Activate changes

Terminal

```
cd /etc/httpd
sudo chmod o-w httpd.conf
sudo apachectl graceful
```

Apache in Tiger

Enabling mod_php

- Summary
  - Edited the apache configuration in httpd.conf
  - Enabled PHP

PHP in Tiger

Explore and configure

http://developer.apple.com/wwdc2005/

PHP in Tiger

- Version 4.3.1
- Official Website http://www.php.net

Open www.php.net

Click on 'documentation'

PHP in Tiger

Let's try it out

Terminal

```
cd /Library/WebServer/Documents
echo "<?php phpinfo(); ?>" > phpinfo.php
```

Safari

Open http://localhost/phpinfo.php

Browse the php page

PHP in Tiger

Let's try it out

Terminal

```
cd /Library/WebServer/Documents
echo "<?php phpinfo(); ?>" > phpinfo.php
```

Safari

Open http://localhost/phpinfo.php

Browse the php page

PHP in Tiger

Let's try it out

Terminal

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cd /Library/WebServer/Documents
echo "<?php phpinfo(); ?>" > phpinfo.php
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Open http://localhost/phpinfo.php

Browse the php page

PHP in Tiger

Let's try it out

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echo "<?php phpinfo(); ?>" > phpinfo.php
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Safari

Open http://localhost/phpinfo.php

Browse the php page

PHP in Tiger

Let's try it out

Terminal

```
cd /Library/WebServer/Documents
echo "<?php phpinfo(); ?>" > phpinfo.php
```

Safari

- Open http://localhost/phpinfo.php

  Browse the php page

PHP in Tiger

Let's try it out

Terminal

```
cd /Library/WebServer/Documents
echo "<?php phpinfo(); ?>" > phpinfo.php
```

Safari

Open http://localhost/phpinfo.php

- Browse the php page

Demo

Browse phpinfo.php

http://developer.apple.com/wwdc2005/

PHP in Tiger—Configuration

- Configuration Files
- /etc/php.ini
- /etc/php.ini.default

Terminal

```
open /etc
```

Finder

Browse /etc

Locate php.ini.default

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo cp -p php.ini.default php.ini
sudo chmod o+w php.ini
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo cp -p php.ini.default php.ini
sudo chmod o+w php.ini
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PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

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sudo cp -p php.ini.default php.ini
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PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

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cd /etc
sudo cp -p php.ini.default php.ini
sudo chmod o+w php.ini
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
open /etc
```

Finder

Browse /etc

Drag and drop ‘php.ini’ to Xcode

Xcode

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
◆ open /etc
```

Finder

Browse /etc

Drag and drop ‘php.ini’ to Xcode

Xcode

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
open /etc
```

Finder

- Browse /etc

  Drag and drop ‘php.ini’ to Xcode

Xcode

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
open /etc
```

Finder

Browse /etc

- Drag and drop ‘php.ini’ to Xcode

Xcode

Demo

Open php.ini in Xcode

http://developer.apple.com/wwdc2005/

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Xcode

Review defaults:

memory_limit = 8M

magic_quotes_gpc = Off

upload_max_filesize = 2M

Save & Close

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Xcode

Review defaults:

- memory_limit = 8M

  magic_quotes_gpc = Off

  upload_max_filesize = 2M

Save & Close

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Xcode

Review defaults:

memory_limit = 8M

◆ magic_quotes_gpc = Off

upload_max_filesize = 2M

Save & Close

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Xcode

Review defaults:

memory_limit = 8M

magic_quotes_gpc = Off

◆ upload_max_filesize = 2M

Save & Close

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Xcode

Review defaults:

memory_limit = 8M

magic_quotes_gpc = Off

upload_max_filesize = 2M

◆ Save & Close

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo chmod o-w php.ini
sudo apachectl graceful
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo chmod o-w php.ini
sudo apachectl graceful
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo chmod o-w php.ini
sudo apachectl graceful
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes

Terminal

```
cd /etc
sudo chmod o-w php.ini
sudo apachectl graceful
```

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes
- Test

Open http://localhost/phpinfo.php

Browse the php page

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes
- Test

- Open http://localhost/phpinfo.php

  Browse the php page

PHP in Tiger—Configuration

- Create new php.ini from defaults
- Edit php.ini
- Activate changes
- Test

Open http://localhost/phpinfo.php

- Browse the php page

PHP in Tiger—Configuration

Summary

- Located documentation
- Browsed configuration files
- Edited the configuration

PHP Installers

Marc Liyanage marc@entropy.ch

http://developer.apple.com/wwdc2005/

PHP Installers—Overview

- Installer Packages for Mac OS X
- Newest versions, both PHP 4 and 5
- Extensions for graphics, XML, databases, networking

PHP Installers—Web Site

Let's go to the website:

Safari

Open http://www.entropy.ch/software/macosx/php/

Browse the php page

Demo

Browse entropy.ch

http://developer.apple.com/wwdc2005/

PHP Installers—Installation

- Which package?
  - PHP 4 or 5
  - PDFlib free or commercial
- What does the installer do?
  - Installs software into /usr/local/php
  - Manipulates Apache config file and restarts web server

Demo

PHP Installers—GD, PDF

http://developer.apple.com/wwdc2005/

PHP Installers

Summary

- http://www.entropy.ch/
- PHP Developer forum on www.entropy.ch

Local Web Site

Setup and configure

http://developer.apple.com/wwdc2005/

Local Web Site

- For safe isolated testing
- Fast turn around time for changes
- No network needed for testing

Local Web Site

- Simulate a real world server
  - http://wwdc/
  - /Library/WebServer/Documents/wwdc/

Local Web Site

Two parts

1. Name Setup
- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup
- Add a configuration file
- Activate changes
- Test website

Local Web Site

Two parts

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—backup hosts

Terminal

```
cd /etc
sudo cp -p hosts hosts.wwdcbackup
sudo chmod o+w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—backup hosts

Terminal

```
cd /etc
sudo cp -p hosts hosts.wwdcbackup
sudo chmod o+w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—backup hosts

Terminal

```
cd /etc
sudo cp -p hosts hosts.wwdcbackup
sudo chmod o+w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—backup hosts

Terminal

```
cd /etc
sudo cp -p hosts hosts.wwdcbackup
sudo chmod o+w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—add our name to hosts

Terminal

```
open /etc
```

Finder

Browse /etc

Drag and drop ‘hosts’ to Xcode

Xcode

1. Name Setup

Backup hosts

Add name to hosts

Activate changes

2. Apache Setup

Add a configuration file

Activate changes

Test website

Local Web Site

Name setup—add our name to hosts

Terminal

- `open /etc`

Finder

Browse /etc

Drag and drop ‘hosts’ to Xcode

Xcode

1. Name Setup

Backup hosts

Add name to hosts

Activate changes

2. Apache Setup

Add a configuration file

Activate changes

Test website

Local Web Site

Name setup—add our name to hosts

Terminal

```
open /etc
```

Finder

- Browse /etc

  Drag and drop ‘hosts’ to Xcode

Xcode

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—add our name to hosts

Terminal

```
open /etc
```

Finder

Browse /etc

- Drag and drop ‘hosts’ to Xcode

Xcode

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—add our name to hosts

Xcode

Add ‘wwdc’ to the end of the following line:

127.0.0.1 localhost

It will look like this when you are done:

127.0.0.1 localhost wwdc

Save and close

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—activate changes

Terminal

```
cd /etc
sudo chmod o-w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—activate changes

Terminal

```
cd /etc
sudo chmod o-w hosts
```

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site

Name setup—activate changes

Terminal

```
cd /etc
sudo chmod o-w hosts
```

1. **Name Setup**
   - Backup hosts
   - Add name to hosts
   - Activate changes
2. **Apache Setup**
   - Add a configuration file
   - Activate changes
   - Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
<VirtualHost *>
ServerName wwdc
DocumentRoot /Library/WebServer/wwdc/
</VirtualHost>
```

Type the letter C or D while holding the ctrl key when done.

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
<VirtualHost *>
ServerName wwdc
DocumentRoot /Library/WebServer/wwdc/
</VirtualHost>
```

Type the letter C or D while holding the ctrl key when done.

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
<VirtualHost *>
ServerName wwdc
DocumentRoot /Library/WebServer/wwdc/
</VirtualHost>
```

Type the letter C or D while holding the ctrl key when done.

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
<VirtualHost *>
ServerName wwdc
DocumentRoot /Library/WebServer/wwdc/
</VirtualHost>
```

Type the letter C or D while holding the ctrl key when done.

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
◆ <VirtualHost *>
  ServerName wwdc
  DocumentRoot /Library/WebServer/wwdc/
  </VirtualHost>
```

Type the letter C or D while holding the ctrl key when done.

1. Name Setup

- Backup hosts
- Add name to hosts
- Activate changes

2. Apache Setup

- Add a configuration file
- Activate changes
- Test website

Local Web Site—Apache Setup

Apache setup—add a configuration file

Terminal

```
sudo tee /etc/httpd/users/wwdc.conf > /dev/null
NameVirtualHost *
<VirtualHost *>
ServerName localhost
DocumentRoot /Library/WebServer/Documents/
</VirtualHost>
<VirtualHost *>
ServerName wwdc
DocumentRoot /Library/WebServer/wwdc/
</VirtualHost>
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Type the letter C or D while holding the ctrl key when done.

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Local Web Site—Apache Setup

Apache setup—activate changes

Terminal

```
mkdir /Library/WebServer/wwdc
sudo apachectl graceful
```

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Local Web Site—Apache Setup

Apache setup—activate changes

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1. Name Setup

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Test website

Local Web Site—Test

Test your new web site

Terminal

```
cd /Library/WebServer/wwdc
echo "<?php phpinfo(); ?>" > phpinfo.php
```

Safari

Open http://wwdc/phpinfo.php

Browse the php page

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Local Web Site—Test

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- Browse the php page

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Demo

View local website

http://developer.apple.com/wwdc2005/

Local Web Site

Summary

- Created local host alias
- Created virtual host configuration file

A.M.P. on Mac OS X

Review

John Montbriand, DTS Engineer
Marc Liyanage, www.entropy.ch

http://developer.apple.com/wwdc2005/

Topics

Apache, MySQL, and PHP in Tiger

- What's installed?
  - PHP, Perl, Python, Ruby
- Apache
- PHP

Marc Liyanage of http://www.entropy.ch

- Installers for today's versions
- Configured a local web site

URLs

- Marc Liyanage's Web Site—http://www.entropy.ch
- MySQL—http://www.mysql.com
- PostgreSQL—http://www.postgresql.org
- PHP—http://www.php.net
- Apache—http://www.apache.org
- Perl—http://www.perl.org
- Python—http://www.python.org
- Ruby—http://www.ruby-lang.org
- Darwin Ports—http://darwinports.opendarwin.org

Q&A

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http://developer.apple.com/wwdc2005/

WWDC2005

Worldwide Developers Conference